

# MILAN KACAR

## Software & Survey Engineer

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## ABOUT ME

I am a Software Engineer & Survey Engineer with 3.5 years of professional experience. I graduated Geodesy at Graz University of Technology in Austria, where I worked as a project and teaching assistant. Currently I am working for niceshops GmbH as a Data Scientist and Data Engineer. I am also enrolled in two Master's degree programs : Geodesy & Computer Science at the same university. I grew up in Mrkonjic Grad (Republic of Srpska, BA) where I finished my high school.

## PERSONAL INFORMATION

👤 Date of birth    01.09.1995  
📍 Birthplace    Banja Luka, BA  
🏳️ Citizenship    Austrian  
❤️ Marital status    Single  
♂️ Sex    Male

## EDUCATION

### GYMNASIUM

📅 2010 - 2014    📍 Mrkonjic Grad, BA

### BSc Geomatics Engineering

#### University of Technology, TU Graz

📅 2015 - 2019    📍 Graz, Austria

### Master's Degree Programme - Geodesy

#### University of Technology, TU Graz

📅 2019-Present    📍 Graz, Austria

### Master's Degree Programme - Computer Science

#### University of Technology, TU Graz

📅 2020-Present    📍 Graz, Austria

## UNIVERSITY & PERSONAL PROJECTS

- SCIENTIFIC PAPER MINER - Based on the publishing institutions we define our market competitors and geocode their locations. [Python/WebScaper]
- POLLEN TREE DETECTOR (FROM SATELLITE IMAGES) - This project presents an automated tree detecting and identification method based on image processing of satellite imagery. [Python/keras/pytorch]
- STOCK PRICES PREDICTOR - Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect prices fluctuation (SP 500, Dow Jones, DAX etc.) [Python/keras/pytorch]
- RUSHB APP - New method to summon a waiter and order food in bars and restaurants. As a test page you can look at <http://www.dolcevita.rushb.app/client.php>. [JavaScript/PHP/Java]
- DIFFERENT SIGNAL PROCESSING PROJECTS - Mostly projects on GNSS signals. [C++]
- GRAVITY ANOMALY MAPS - GRACE misson. [Python/MATLAB]
- KALMAN FILTER · ADVANCED KALMAN FILTER · PARTICLE FILTER - as a part of indoor navigation. [C++]
- DIFFERENT ARDUINO PROJECTS - Mostly projects from youtube tutorials and combination of different projects. [C/Java/C++]

## TECHNICAL STRENGTH

Python	● ● ● ● ●
Google Cloud	● ● ● ● ●
C/C++	● ● ● ● ●
GIS	● ● ● ● ●
PostgreSQL	● ● ● ● ●
Navigation	● ● ● ● ●
Cloud computing	● ● ● ● ●
GNSS	● ● ● ● ●
Signal Processing	● ● ● ● ●
Java	● ● ● ● ●
Data Structures & Algorithms	● ● ● ● ●
MySQL	● ● ● ● ●
Docker	● ● ● ● ●
Java Script	● ● ● ● ●
PHP	● ● ● ● ●
Linux	● ● ● ● ●
R	● ● ● ● ●
Apache Spark	● ● ● ● ●
Scala	● ● ● ● ●

# DISSERTATION WORK

## BSc Thesis

### Database for cycling routes

- Entity Relationship Diagram.
- Building the Database.
- Conversion from analog to digital maps.

## MSc Thesis


### PV (Photovoltaic) panels detection from satellite images

- Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect panels.
- Building an independent model to work on different datasets.
- Cloud computing
- YOLOv5

# WORK EXPERIENCE

## Survey Engineer

### GEODATA

 July 2019 - December 2020  Semmering Basistunnel, Austria

- Tunnel surveying
- 3D Laser scanner measurements

## Teaching Assistant

### TU Graz

 March 2021 - January 2022  Graz, Austria

- Integrated navigation
- Sensor fusion
- Indoor navigation

## Software Engineer



### TU Graz

 Sep 2019 - January 2022  Graz, Austria

- Software Architect
- Project management
- Automation
- Data Analysis
- ML forecasting
- Statistics
- Geoinformatics
- Automotive industry
- Automotive Battery and Electric Vehicle Testing

## Data Scientist & Data Engineer

### niceshops GmbH

 January 2021 - pending  Vienna, Austria

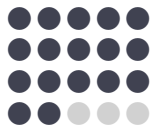
- Finances (all types of tasks)
- Cloud computing
- AI & ML tasks
- Courses inside the house / teaching (Looker)
- Research about demand forecasting
- Dynamic pricing
- Looker

# STRENGTHS





- Hard-working
- Decision Making
- Ability to Work Under Pressure
- Motivator & Leader
- Conflict Resolution
- Time Management
- Target oriented
- Able to travel
- Flexibility and Adaptability
- Problem solver

# LANGUAGES

Serbian | Croatian | Bosnian  
English  
German  
Russian



# HOBBIES

-  **Reading**  
I am trying to read a book per week.
-  **Sports Addict**  
At a young age I enjoyed playing tennis, but my interests migrated towards Fitness and healthy food.
-  **Travelling**  
After living in a rustic, small town for the past 18 years, I was craving change and adventure. Six years later, I've traveled to more places during college than the first two decades of my life.
-  **Trading**  
I love to analyze the markets and factors that may impact the price on daily/weekly and long term basis.